

GOMOS Daily Report 25-MAY-2004

Level 0 and Level 1 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	28MAY2004 03:57:01
Data source version	GOMOS/4.02
Start time of products	25-MAY-2004 (25MAY2004 00:00:00)
Stop time of products	26-MAY-2004 (26MAY2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	49
Nb of prods with errors	0

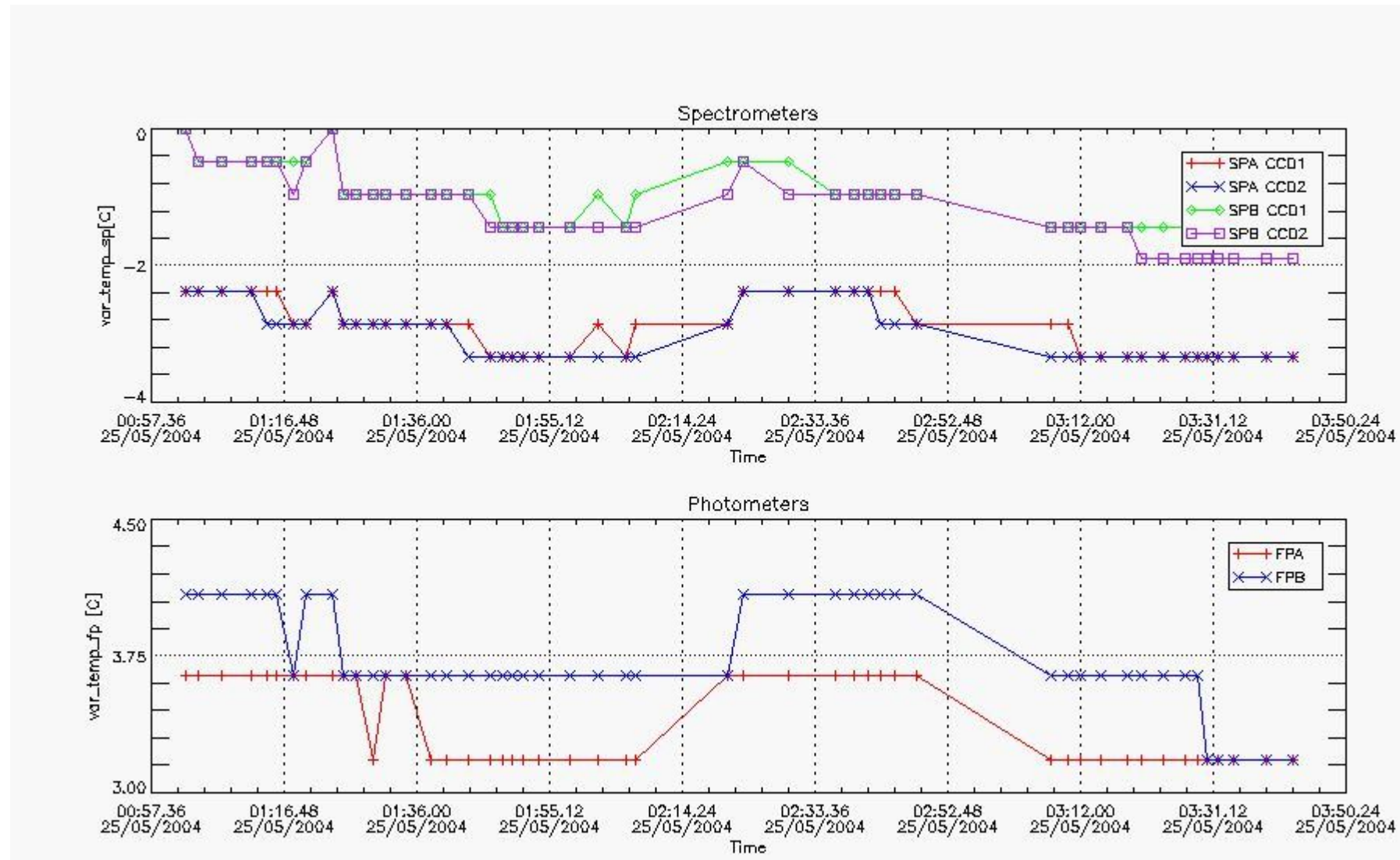
2. Summary of products arrived in PCF

2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products.

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040525_010228_000000462027_00103_11680_0000.N1	25-MAY-2004 01:02:28	Dark	46.000	31	Alp Gru	1.7340	15200.	92	11680	No
GOM_TRA_1PNPDE20040525_010428_000000372027_00103_11680_0001.N1	25-MAY-2004 01:04:28	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	11680	No
GOM_TRA_1PNPDE20040525_010746_000000452027_00103_11680_0002.N1	25-MAY-2004 01:07:46	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11680	No
GOM_TRA_1PNPDE20040525_011208_000000432027_00103_11680_0003.N1	25-MAY-2004 01:12:08	Twilight	43.000	43	Alp TrA	1.9100	4250.0	86	11680	No
GOM_TRA_1PNPDE20040525_011415_000000392027_00103_11680_0004.N1	25-MAY-2004 01:14:15	Twilight	38.500	134	Bet TrA	2.8100	6600.0	77	11680	No
GOM_TRA_1PNPDE20040525_011545_000000422027_00103_11680_0005.N1	25-MAY-2004 01:15:45	Bright	42.000	4	Alp1Cen	-0.010000	5800.0	84	11680	No
GOM_TRA_1PNPDE20040525_011807_000000612027_00103_11680_0006.N1	25-MAY-2004 01:18:07	Bright	61.000	38	20Eps Sgr	1.8360	11000.	122	11680	No
GOM_TRA_1PNPDE20040525_011956_000000782027_00103_11680_0007.N1	25-MAY-2004 01:19:56	Bright	78.000	57	34Sig Sgr	2.0660	26000.	156	11680	No
GOM_TRA_1PNPDE20040525_012352_000000592027_00103_11680_0000.N1	25-MAY-2004 01:23:52	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	11680	No
GOM_TRA_1PNPDE20040525_012524_000000472027_00103_11680_0001.N1	25-MAY-2004 01:25:24	Bright	46.500	80	7Del Sco	2.3160	30000.	93	11680	No
GOM_TRA_1PNPDE20040525_012706_000000522027_00103_11680_0002.N1	25-MAY-2004 01:27:06	Bright	52.000	86	35Eta Oph	2.4300	10200.	104	11680	No
GOM_TRA_1PNPDE20040525_012941_000000382027_00103_11680_0003.N1	25-MAY-2004 01:29:41	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	11680	No
GOM_TRA_1PNPDE20040525_013122_000000452027_00103_11680_0004.N1	25-MAY-2004 01:31:22	Bright	44.500	120	1Del Oph	2.7340	3200.0	89	11680	No
GOM_TRA_1PNPDE20040525_013425_000000412027_00103_11680_0005.N1	25-MAY-2004 01:34:25	Bright	40.500	102	24Alp Ser	2.6000	4250.0	81	11680	No
GOM_TRA_1PNPDE20040525_013805_000000392027_00103_11680_0006.N1	25-MAY-2004 01:38:05	Bright	39.000	3	16Alp Boo	-0.050000	4250.0	78	11680	No
GOM_TRA_1PNPDE20040525_014013_000000402027_00103_11680_0007.N1	25-MAY-2004 01:40:13	Bright	40.000	83		2.3780	11000.	80	11680	No
GOM_TRA_1PNPDE20040525_014324_000000372027_00103_11680_0008.N1	25-MAY-2004 01:43:24	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	11680	No
GOM_TRA_1PNPDE20040525_014636_000000392027_00103_11680_0009.N1	25-MAY-2004 01:46:36	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	11680	No
GOM_TRA_1PNPDE20040525_014820_000000402027_00103_11680_0010.N1	25-MAY-2004 01:48:20	Bright	39.500	55	79Zet UMa	2.0600	10200.	79	11680	No
GOM_TRA_1PNPDE20040525_014941_000000392027_00103_11680_0011.N1	25-MAY-2004 01:49:41	Bright	38.500	87	64Gam UMa	2.4330	11000.	77	11680	No
GOM_TRA_1PNPDE20040525_015120_000000422027_00103_11680_0012.N1	25-MAY-2004 01:51:20	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	11680	No
GOM_TRA_1PNPDE20040525_015335_000000352027_00103_11680_0013.N1	25-MAY-2004 01:53:35	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	11680	No
GOM_TRA_1PNPDE20040525_015811_000000362027_00103_11680_0014.N1	25-MAY-2004 01:58:11	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	11680	No
GOM_TRA_1PNPDE20040525_020207_000000462027_00103_11680_0015.N1	25-MAY-2004 02:02:07	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	11680	No
GOM_TRA_1PNPDE20040525_020620_000000372027_00103_11680_0016.N1	25-MAY-2004 02:06:20	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11680	No
GOM_TRA_1PNPDE20040525_020732_000000412027_00103_11680_0017.N1	25-MAY-2004 02:07:32	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	11680	No
GOM_TRA_1PNPDE20040525_022055_000000502027_00103_11680_0018.N1	25-MAY-2004 02:20:55	Twilight	50.000	140	88Gam Peg	2.8340	26000.	100	11680	No
GOM_TRA_1PNPDE20040525_022317_000000692027_00103_11680_0019.N1	25-MAY-2004 02:23:17	Dark	69.000	90	54Alp Peg	2.4870	11000.	138	11680	No
GOM_TRA_1PNPDE20040525_022946_000000472027_00103_11680_0020.N1	25-MAY-2004 02:29:46	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	11680	No
GOM_TRA_1PNPDE20040525_023631_000000482027_00103_11680_0021.N1	25-MAY-2004 02:36:31	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	11680	No
GOM_TRA_1PNPDE20040525_023915_000000452027_00103_11680_0022.N1	25-MAY-2004 02:39:15	Dark	44.500	9	Alp Eri	0.45300	24000.	89	11680	No
GOM_TRA_1PNPDE20040525_024121_000000522027_00104_11681_0023.N1	25-MAY-2004 02:41:21	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	11681	No
GOM_TRA_1PNPDE20040525_024304_000000482027_00104_11681_0024.N1	25-MAY-2004 02:43:04	Dark	47.500	31	Alp Gru	1.7340	15200.	95	11681	No
GOM_TRA_1PNPDE20040525_024504_000000382027_00104_11681_0025.N1	25-MAY-2004 02:45:04	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	11681	No
GOM_TRA_1PNPDE20040525_024822_000000482027_00104_11681_0026.N1	25-MAY-2004 02:48:22	Dark	48.000	45	Alp Pav	1.9400	26000.	96	11681	No
GOM_TRA_1PNPDE20040525_030741_000000532027_00104_11681_0000.N1	25-MAY-2004 03:07:41	Bright	52.500	86	35Eta Oph	2.4300	10200.	105	11681	No
GOM_TRA_1PNPDE20040525_031017_000000392027_00104_11681_0001.N1	25-MAY-2004 03:10:17	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	11681	No
GOM_TRA_1PNPDE20040525_031158_000000452027_00104_11681_0002.N1	25-MAY-2004 03:11:58	Bright	44.500	120	1Del Oph	2.7340	3200.0	89	11681	No
GOM_TRA_1PNPDE20040525_031501_000000412027_00104_11681_0003.N1	25-MAY-2004 03:15:01	Bright	41.000	102	24Alp Ser	2.6000	4250.0	82	11681	No
GOM_TRA_1PNPDE20040525_031841_000000372027_00104_11681_0004.N1	25-MAY-2004 03:18:41	Bright	37.000	3	16Alp Boo	-0.050000	4250.0	74	11681	No
GOM_TRA_1PNPDE20040525_032049_000000412027_00104_11681_0005.N1	25-MAY-2004 03:20:49	Bright	40.500	83		2.3780	11000.	81	11681	No
GOM_TRA_1PNPDE20040525_032359_000000362027_00104_11681_0006.N1	25-MAY-2004 03:23:59	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	11681	No
GOM_TRA_1PNPDE20040525_032712_000000392027_00104_11681_0007.N1	25-MAY-2004 03:27:12	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11681	No
GOM_TRA_1PNPDE20040525_032857_000000362027_00104_11681_0008.N1	25-MAY-2004 03:28:57	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	11681	No
GOM_TRA_1PNPDE20040525_033018_000000392027_00104_11681_0009.N1	25-MAY-2004 03:30:18	Bright	38.500	87	64Gam UMa	2.4330	11000.	77	11681	No
GOM_TRA_1PNPDE20040525_033155_000000412027_00104_11681_0010.N1	25-MAY-2004 03:31:55	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	11681	No
GOM_TRA_1PNPDE20040525_033411_000000352027_00104_11681_0011.N1	25-MAY-2004 03:34:11	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	11681	No
GOM_TRA_1PNPDE20040525_033846_000000362027_00104_11681_0012.N1	25-MAY-2004 03:38:46	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11681	No
GOM_TRA_1PNPDE20040525_034242_000000452027_00104_11681_0013.N1	25-MAY-2004 03:42:42	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	11681	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

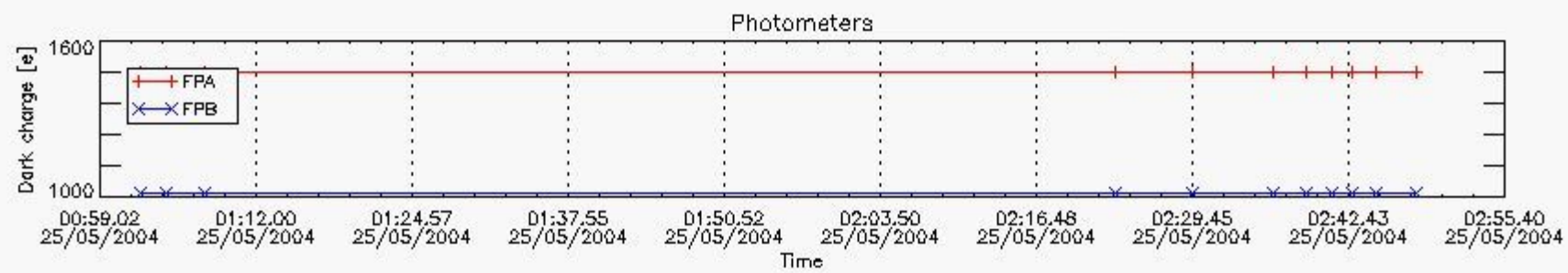
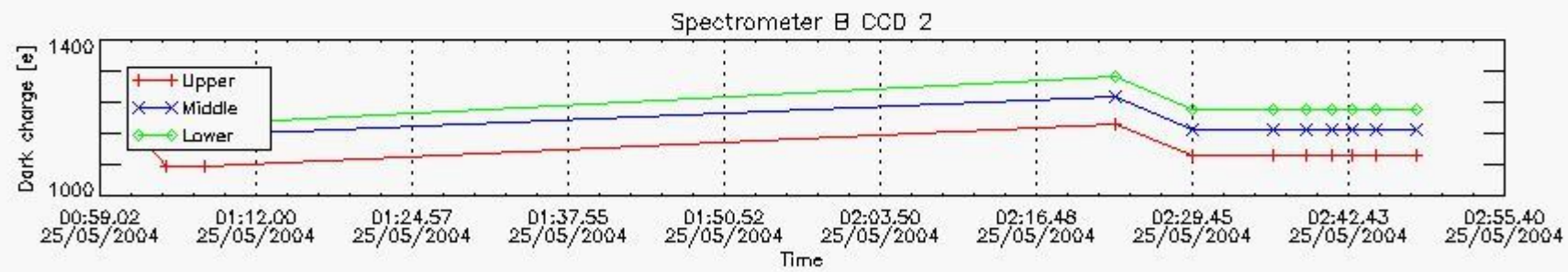
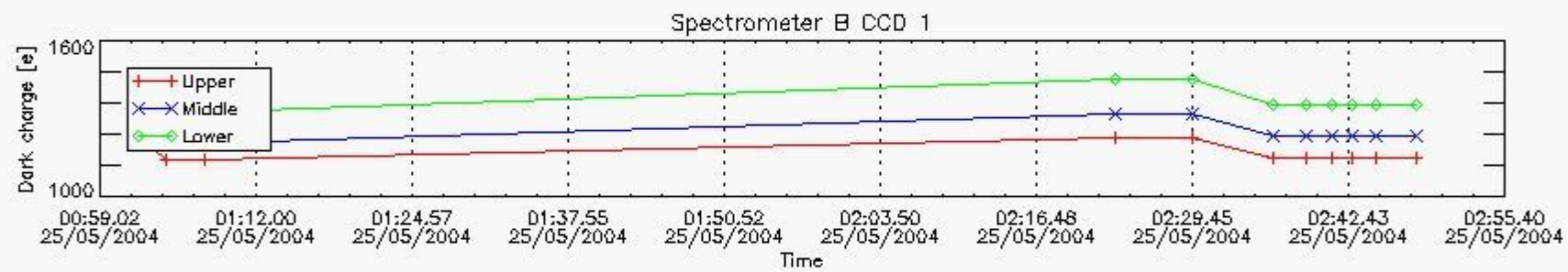
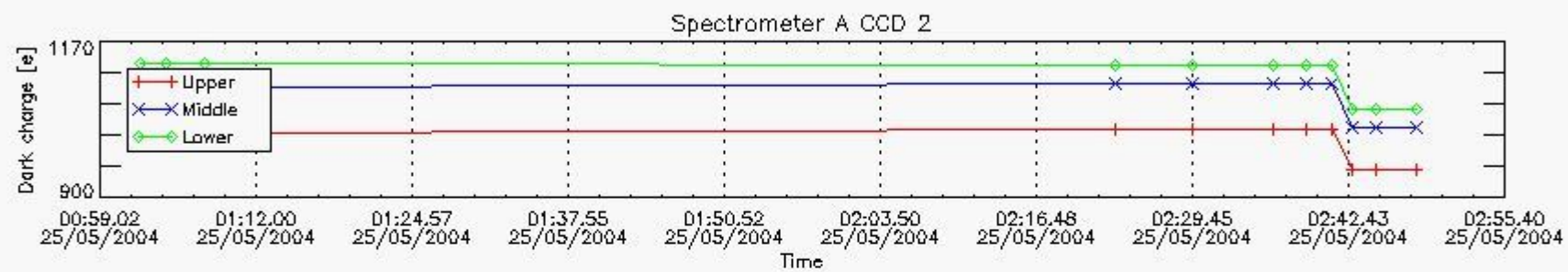
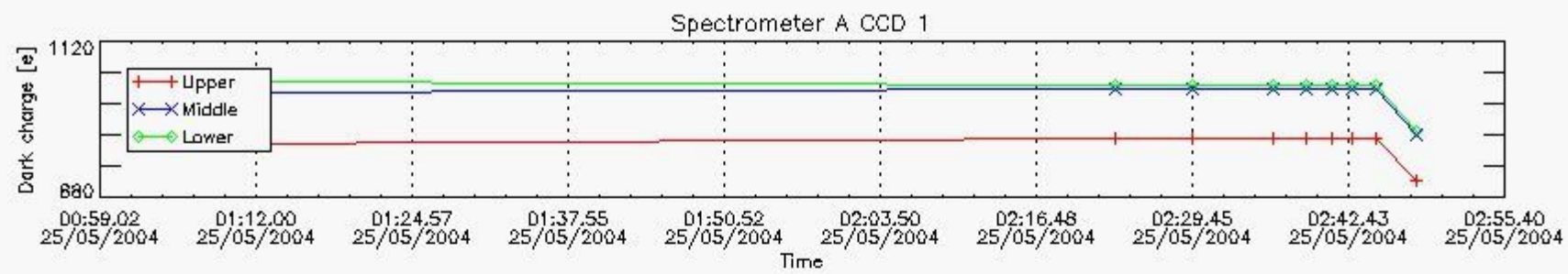
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20040525_010228_000000462027_00103_11680_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040525_010428_000000372027_00103_11680_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040525_010746_000000452027_00103_11680_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040525_011208_000000432027_00103_11680_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040525_011415_000000392027_00103_11680_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040525_011545_000000422027_00103_11680_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040525_011807_000000612027_00103_11680_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040525_011956_000000782027_00103_11680_0007.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



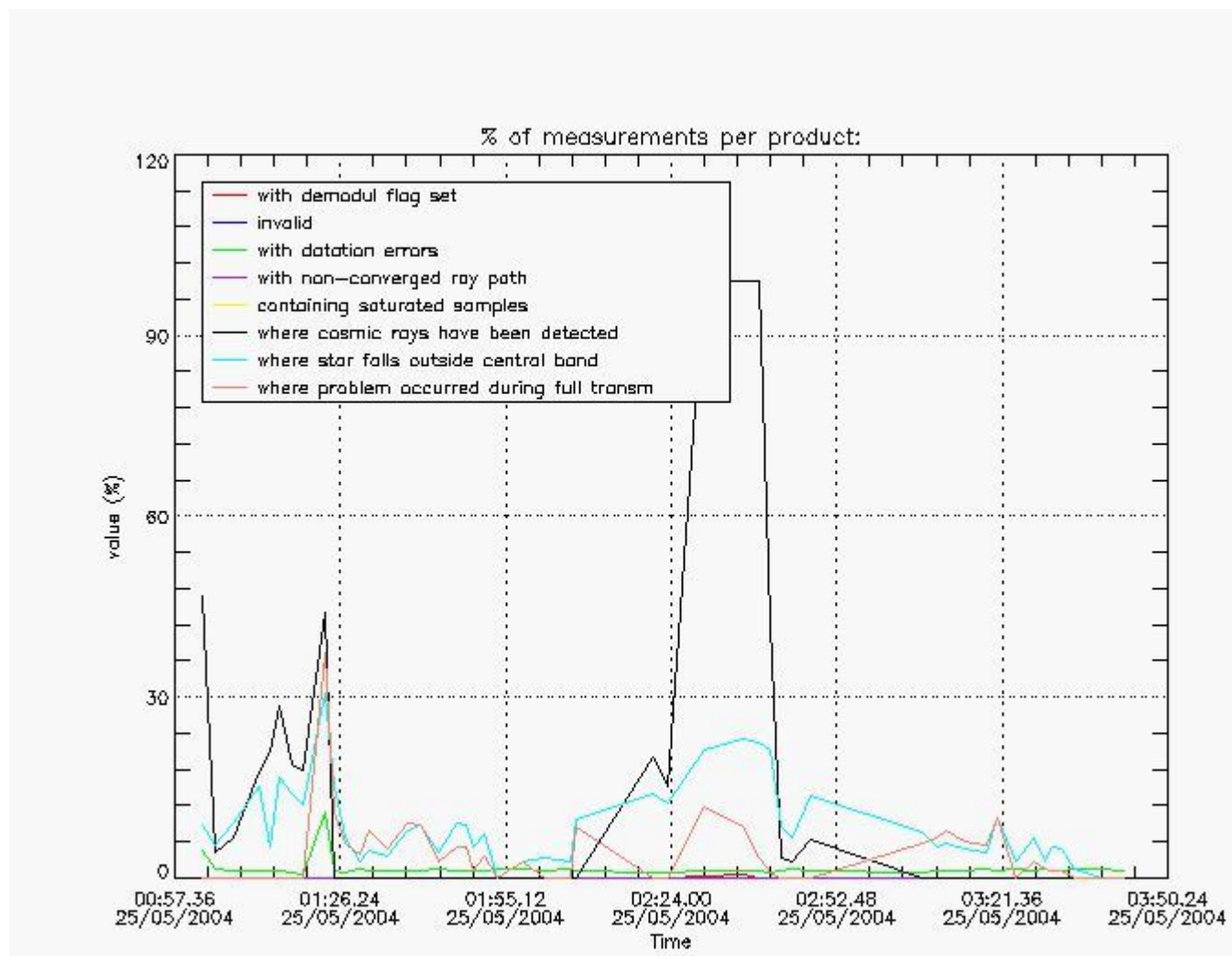
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

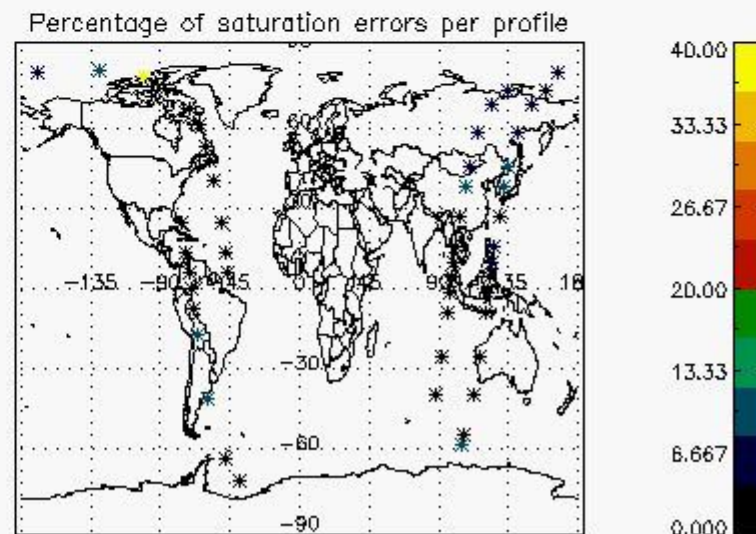
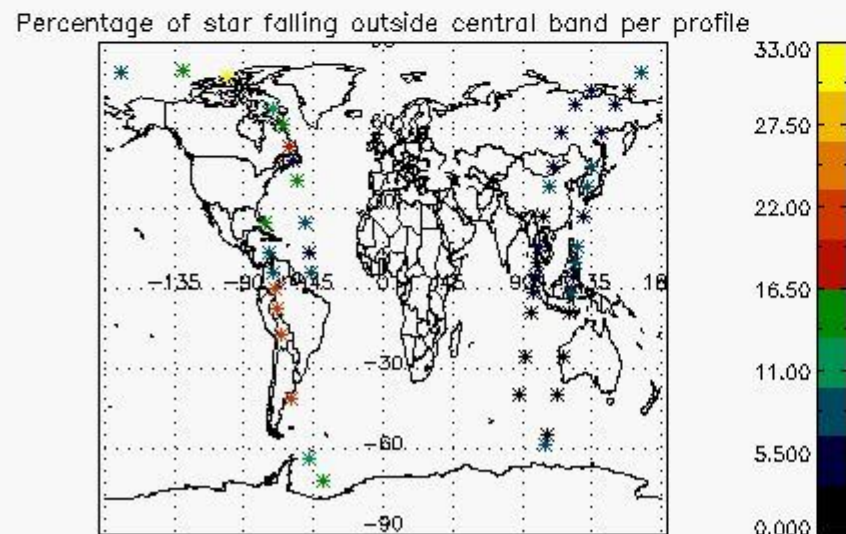
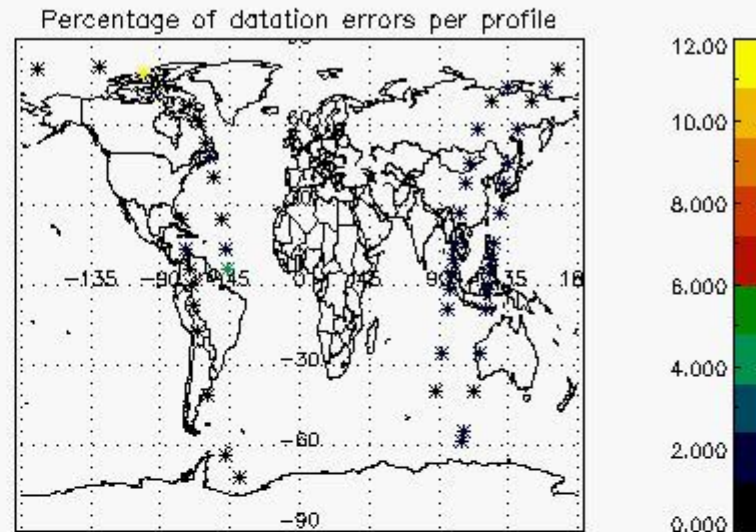
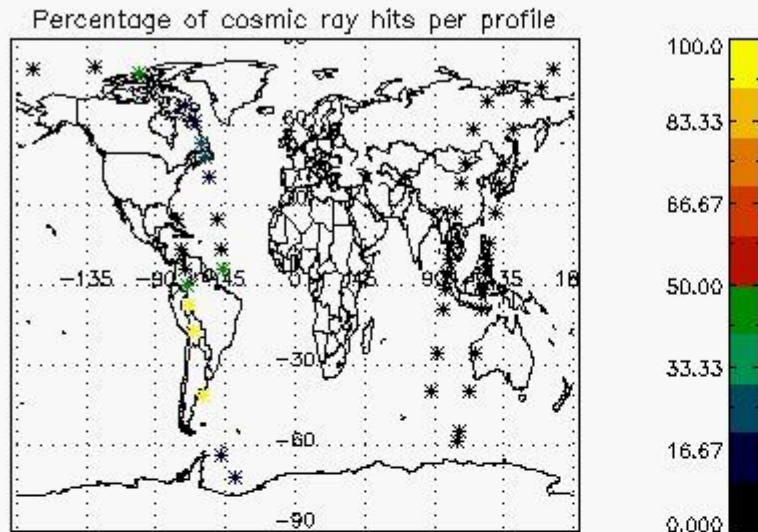
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.2449 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



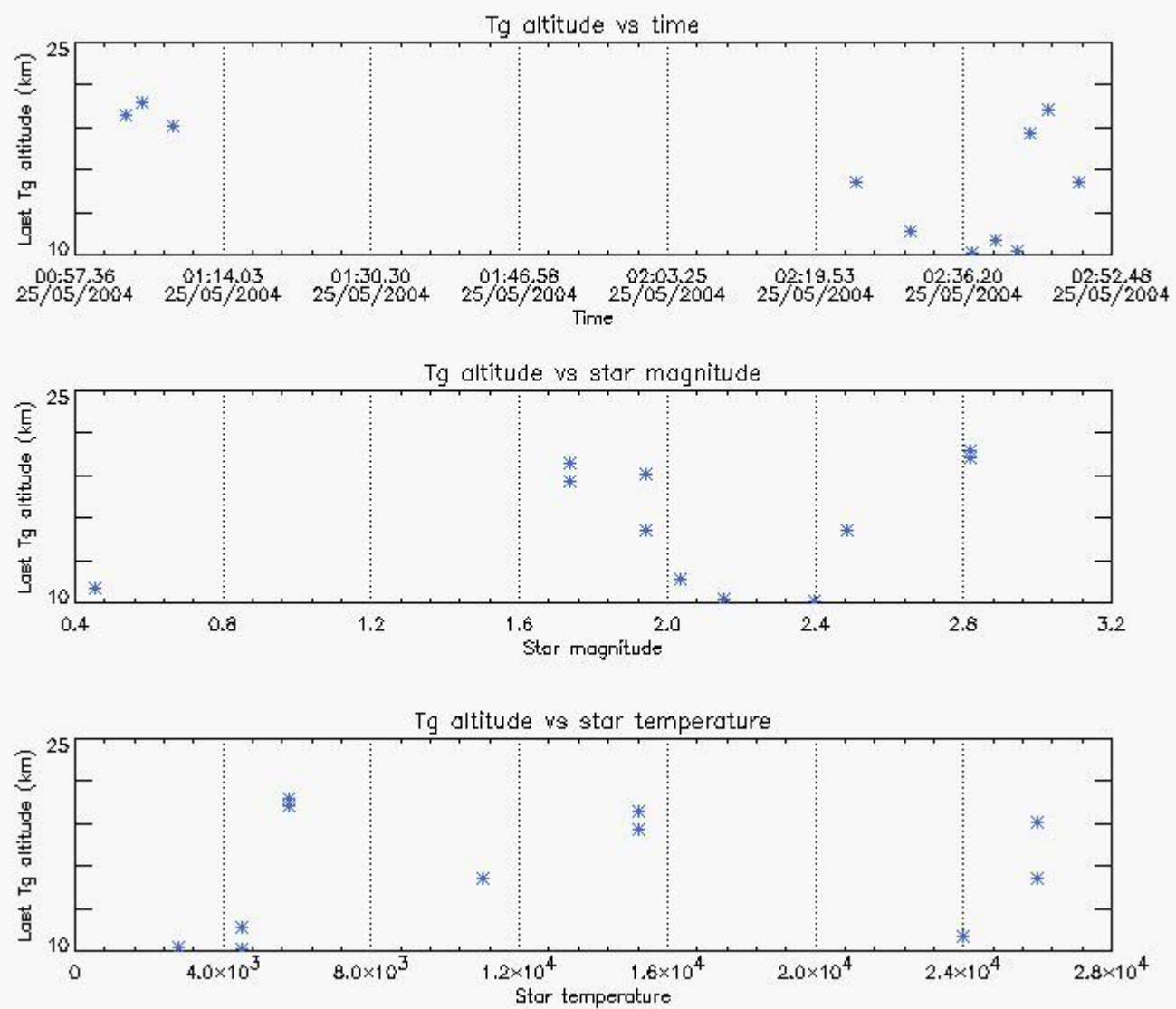
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.631	20.693	16.744
St. deviation:	4.2732	4.4776	3.8040
Maximum:	20.782	27.872	21.039
Minimum:	10.099	5.6148	13.801
Number of data:	11.000	35.000	3.0000

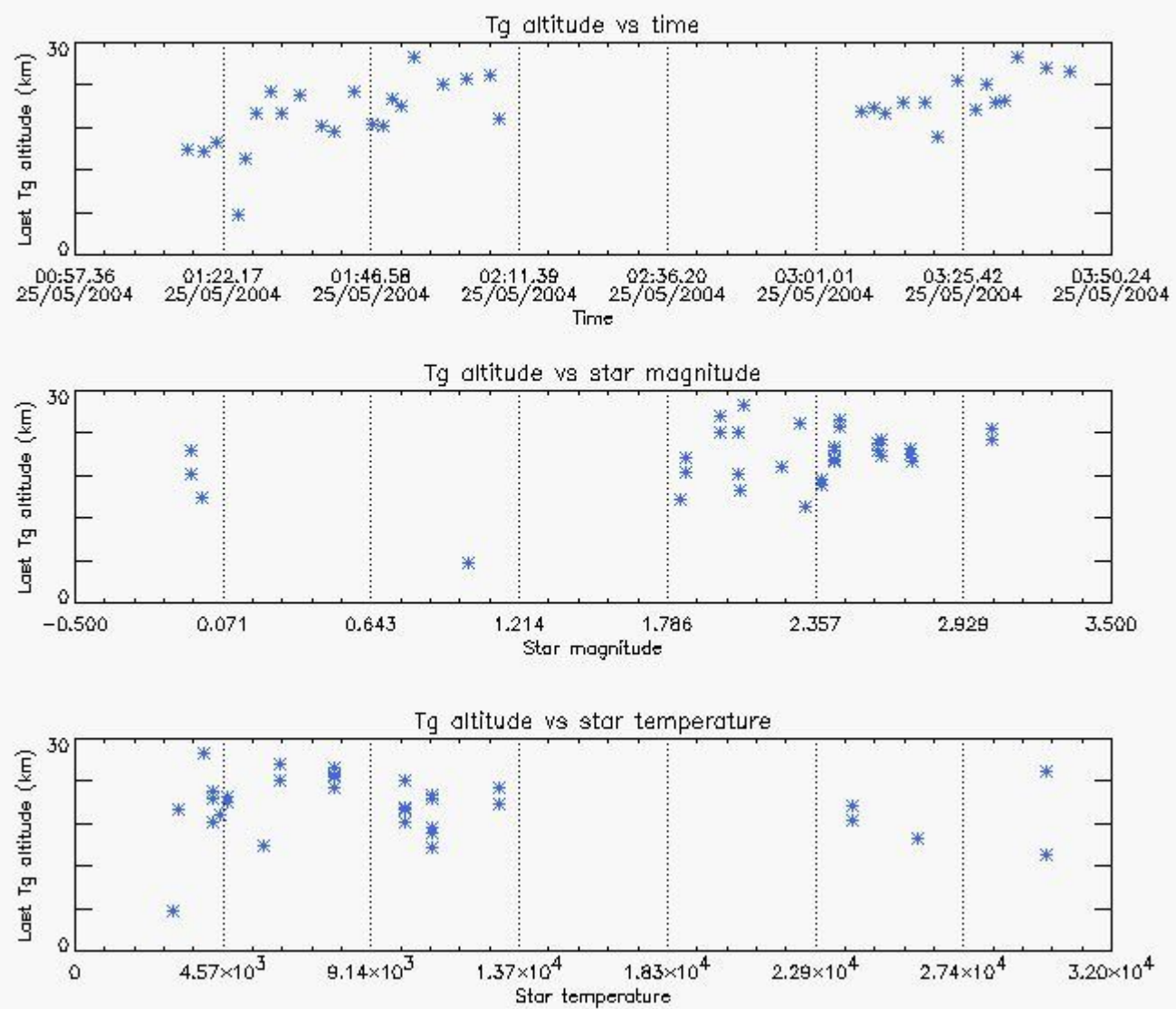
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



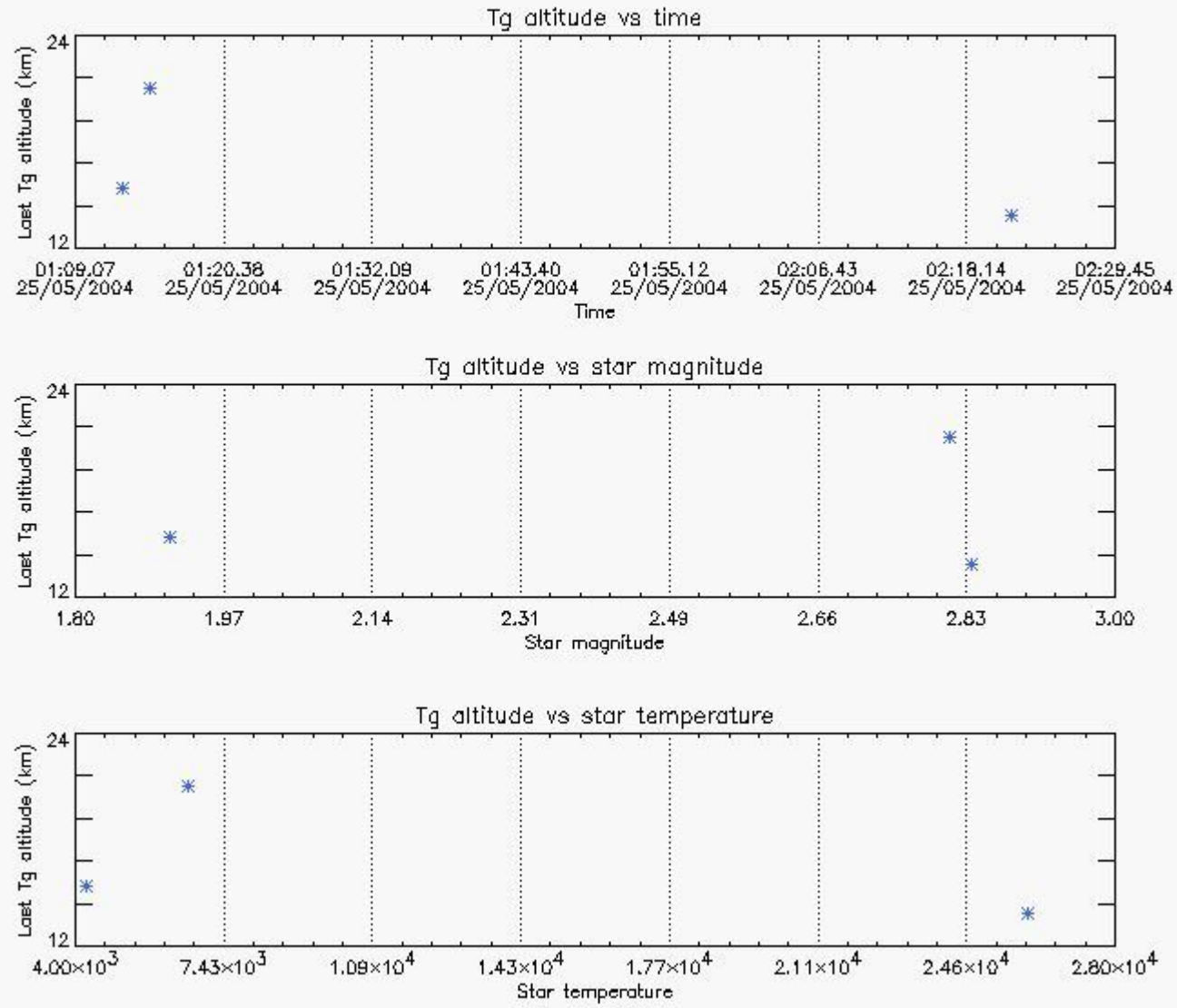
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

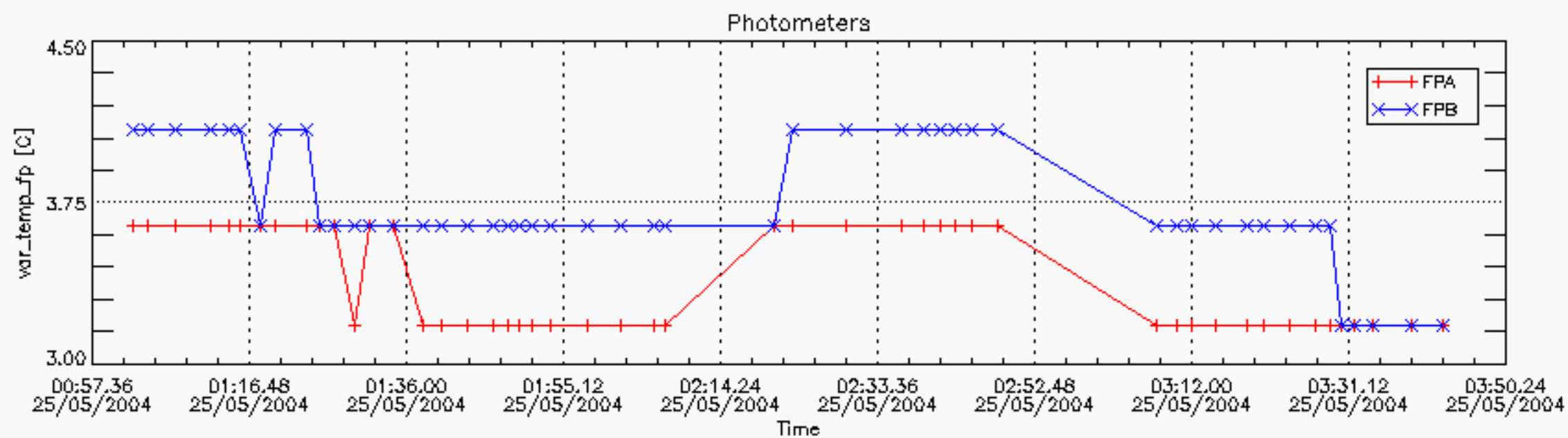
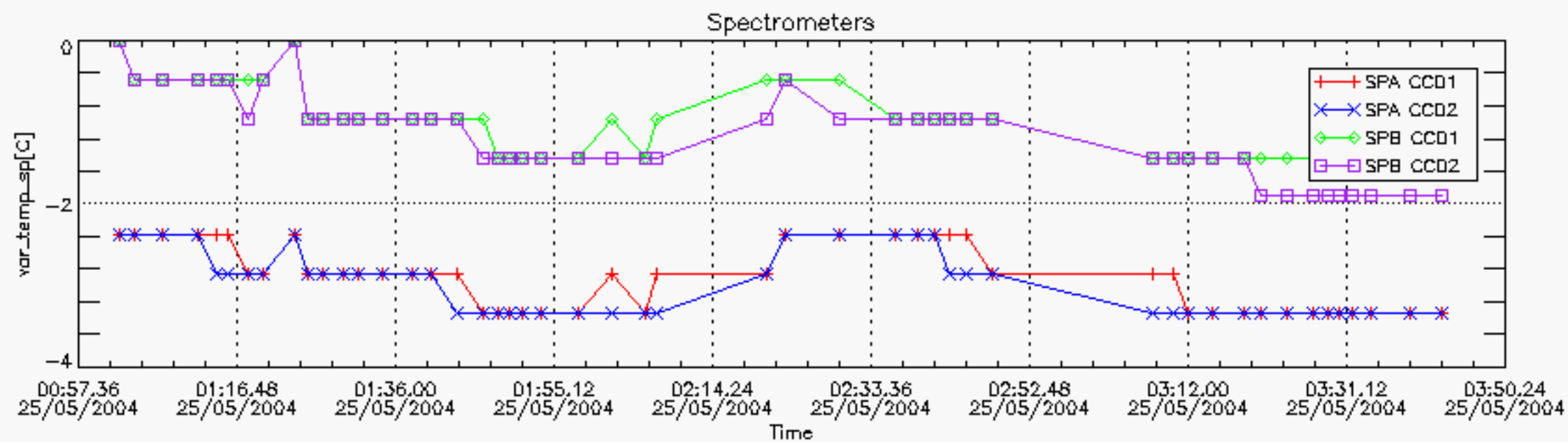
Tangent altitude at which the star is lost

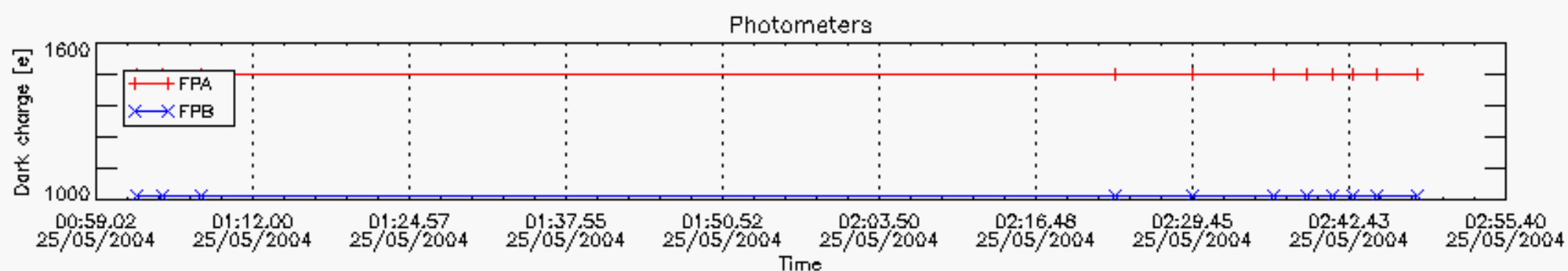
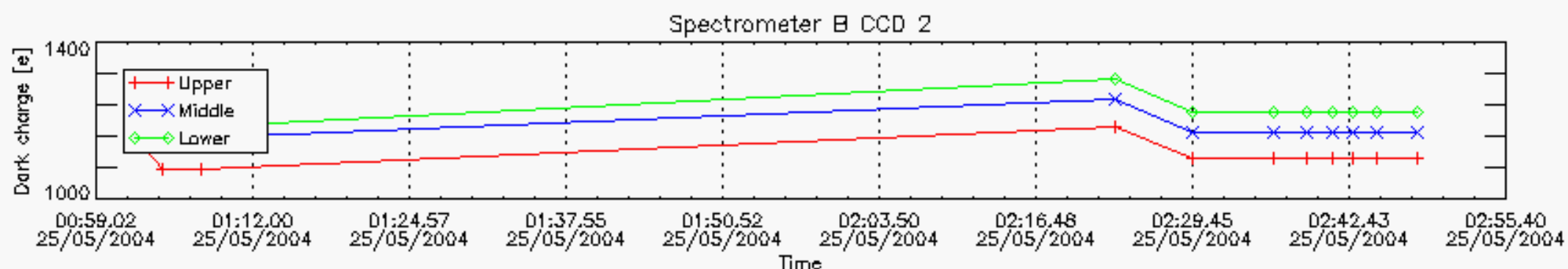
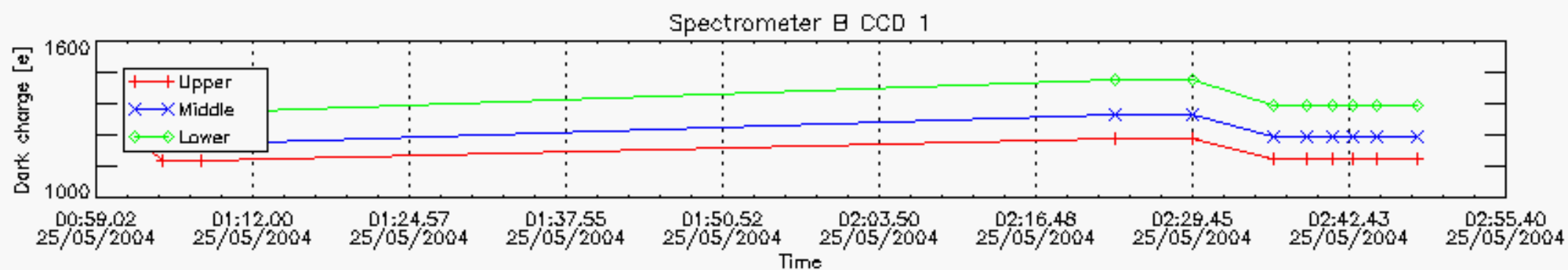
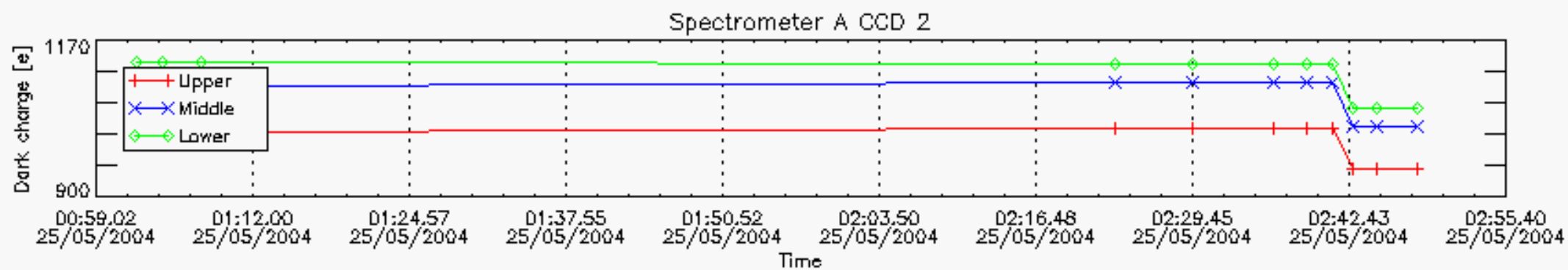
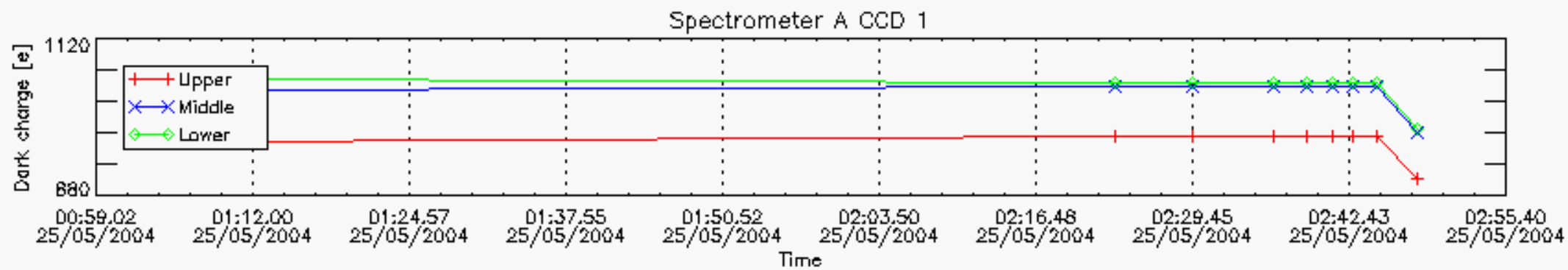


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

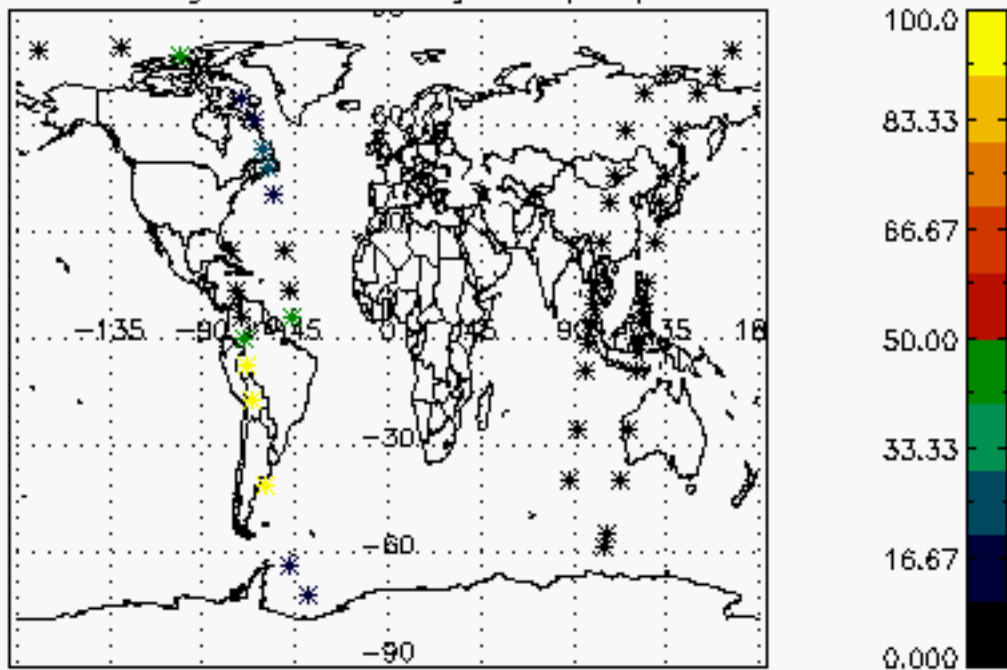
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1447.1	1461.5	1447.4
St. deviation:	4.8028	6.1557	6.6248	7.8977
Maximum:	1493.0	1490.0	1514.0	1499.0
Minimum:	1443.0	1427.0	1436.0	1408.0
Number of data:	13000.	13000.	39450.	39450.

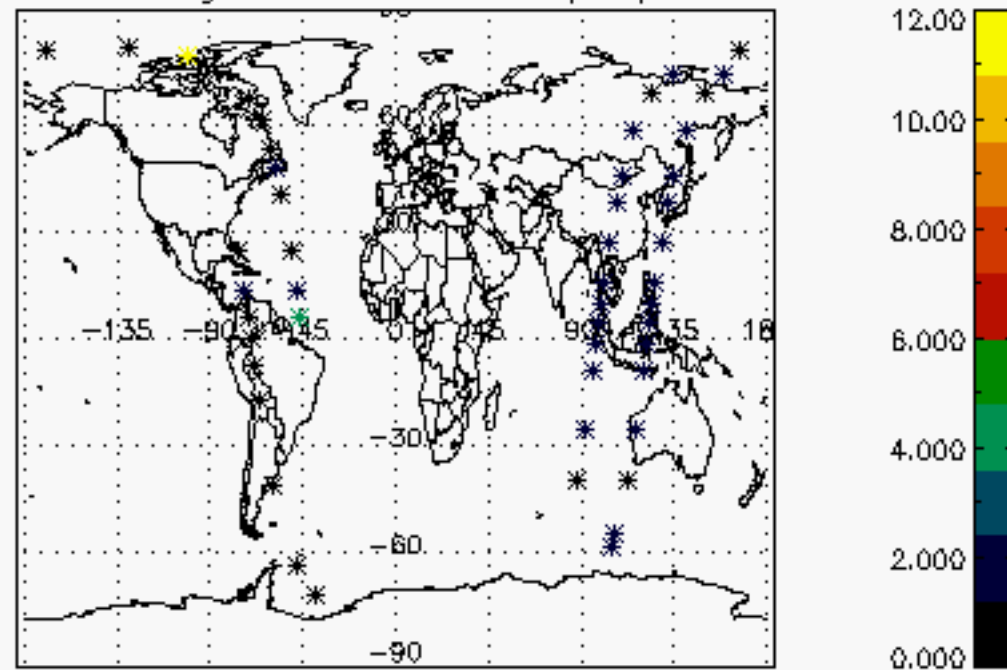




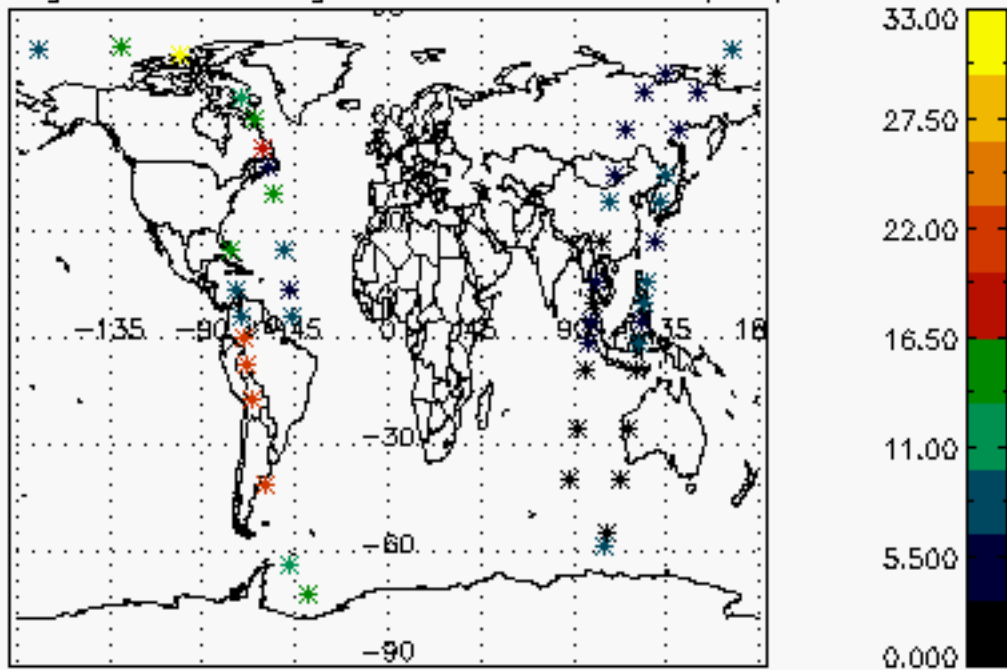
Percentage of cosmic ray hits per profile



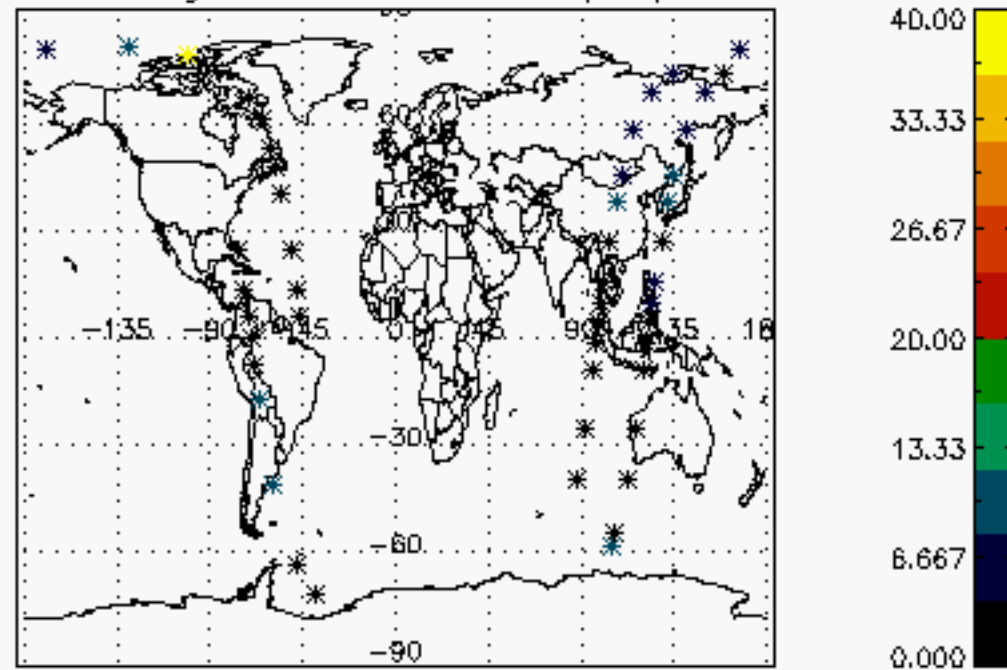
Percentage of datation errors per profile



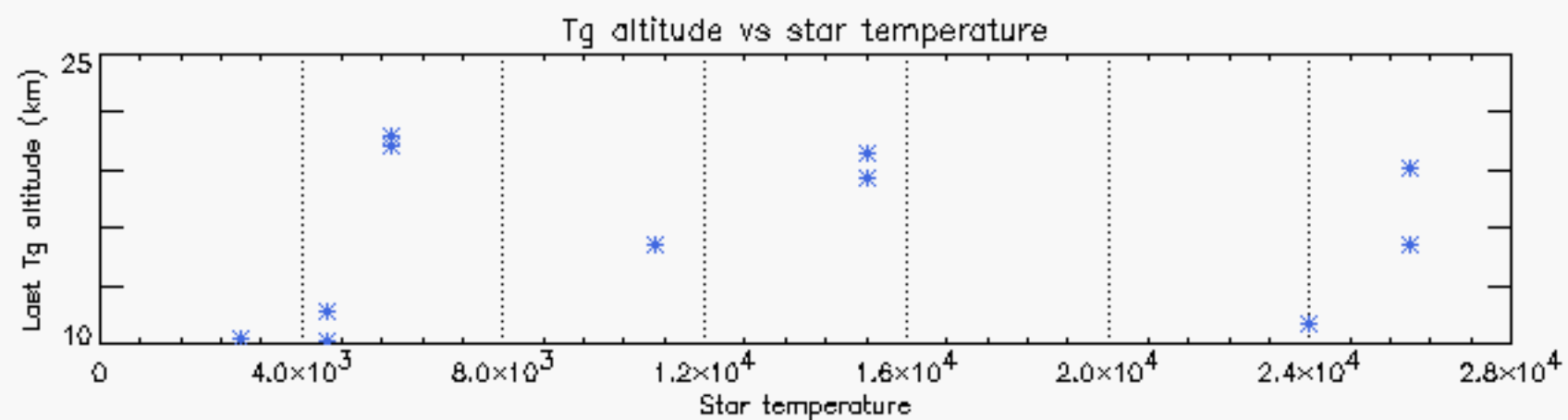
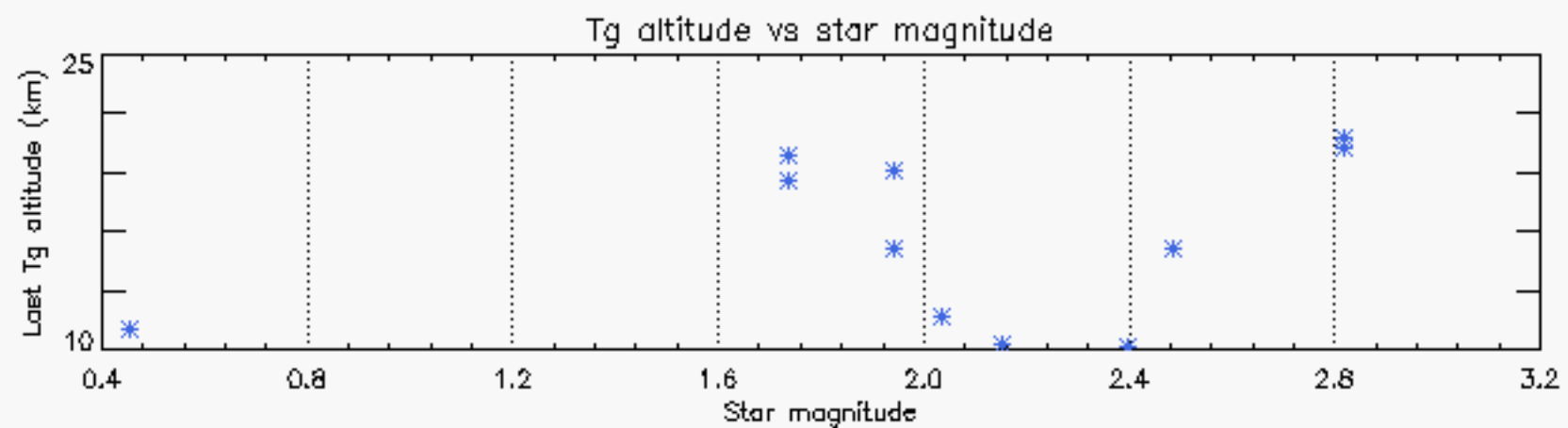
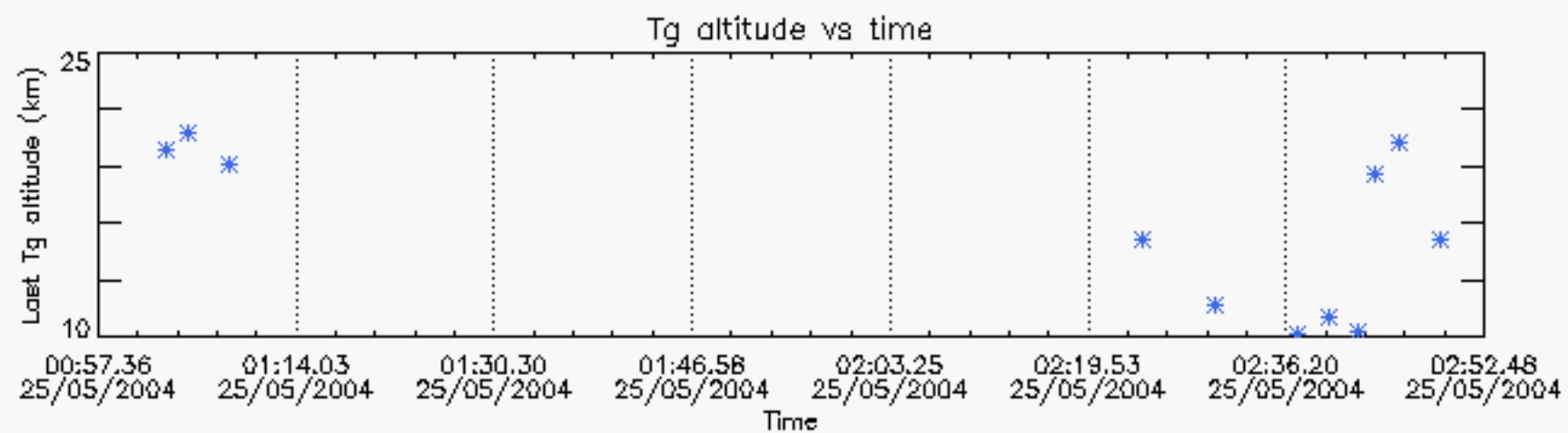
Percentage of star falling outside central band per profile



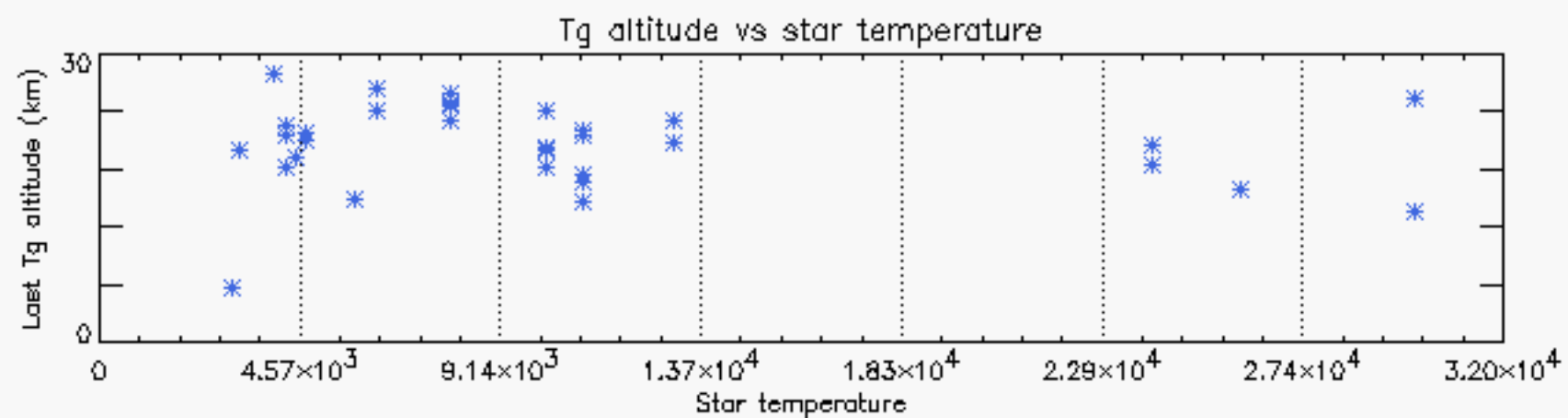
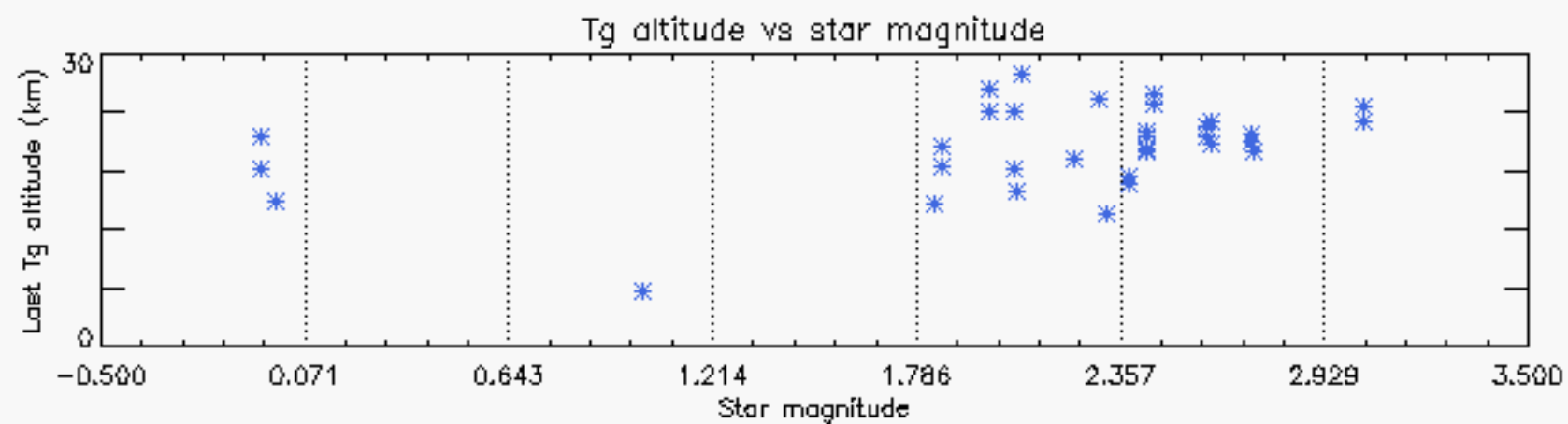
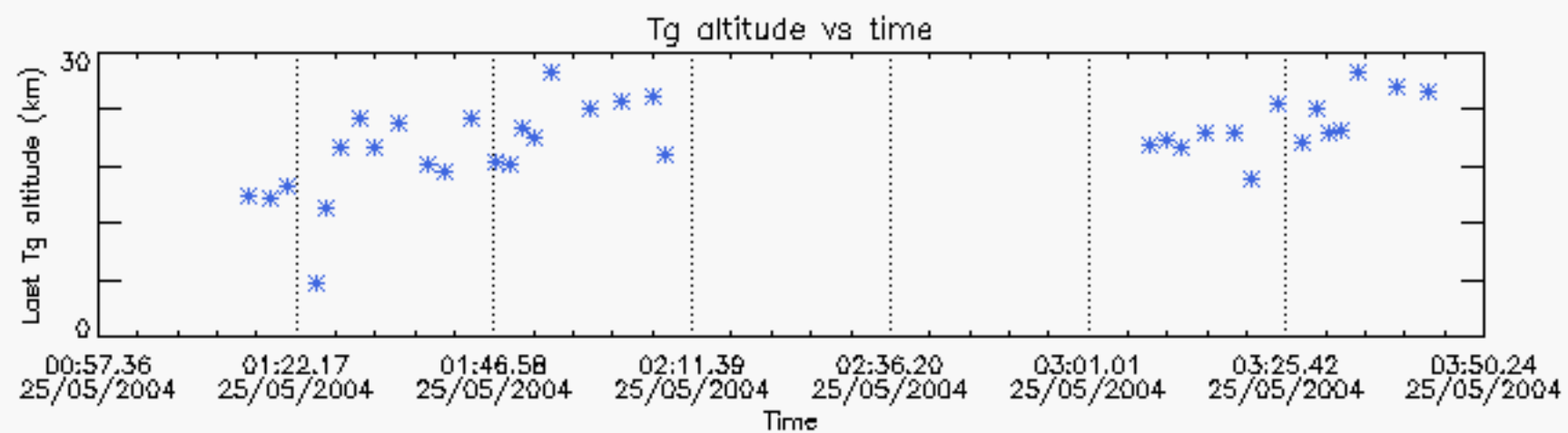
Percentage of saturation errors per profile



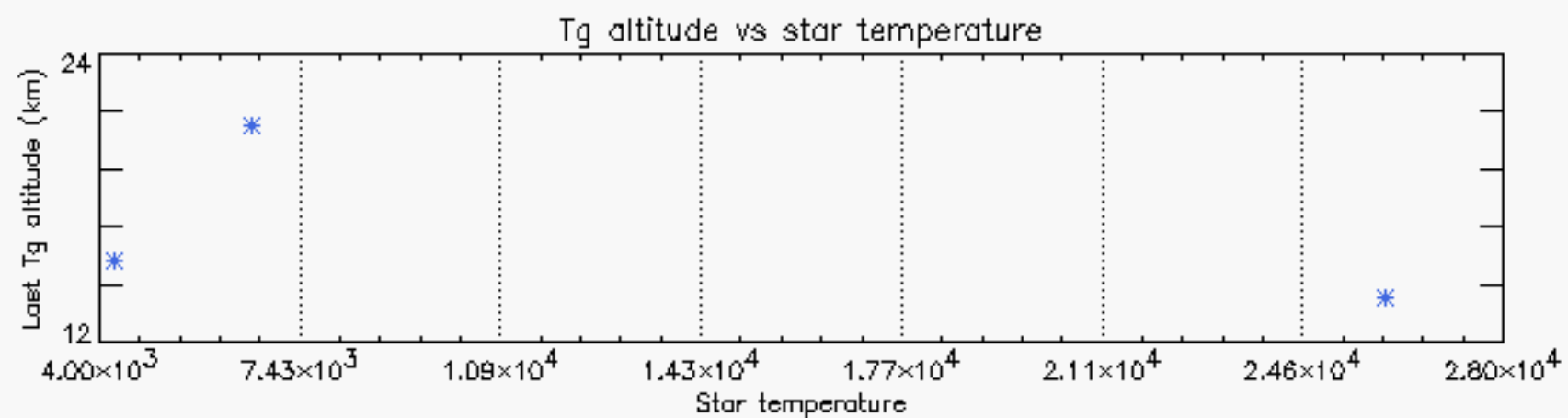
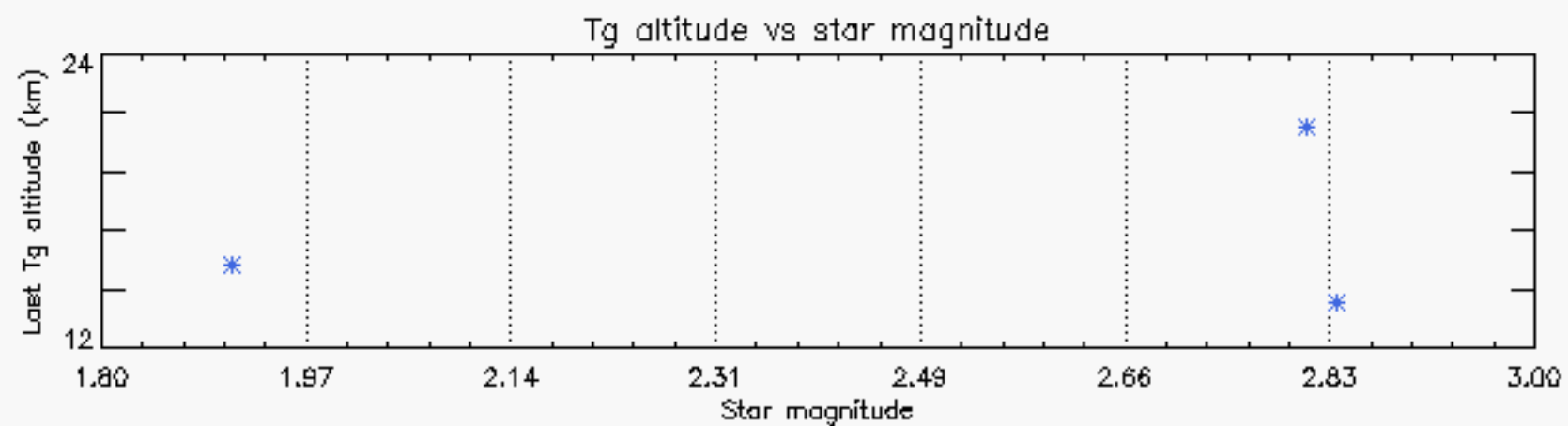
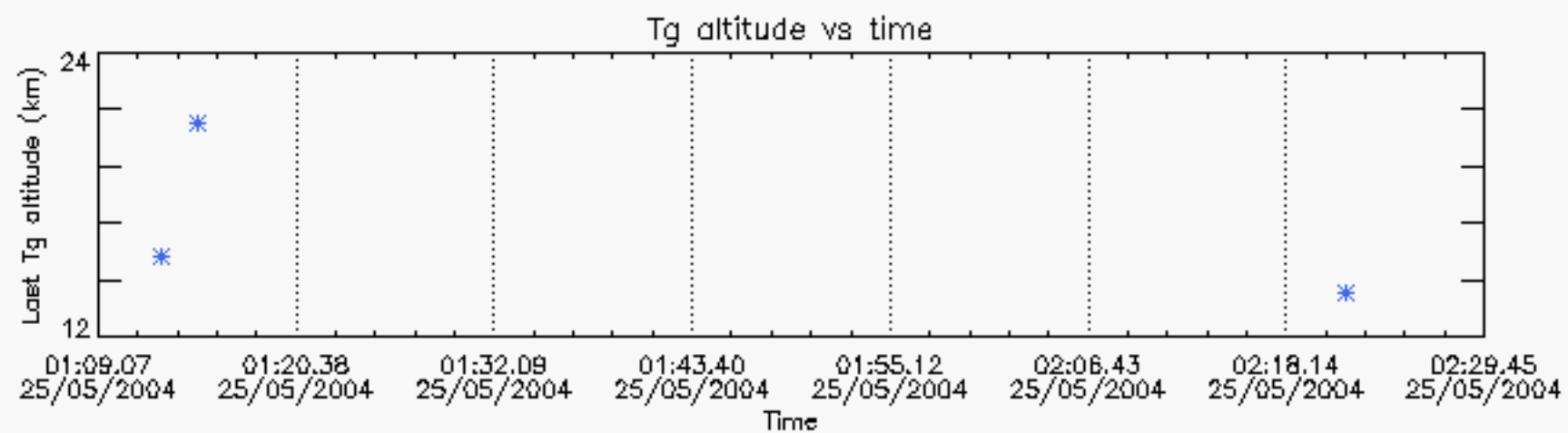
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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1;	-4310.1;	01-MAY-2004	05:45:16;	Bright;	48.5;	104;	27Bet Lib	;	2.61;	13100;occ;	97;	0;	11339
2;	-4139.5;	01-MAY-2004	05:48:07;	Bright;	36.5;	121;	29Gam Vir	;	2.74;	7200;occ;	73;	0;	11339
3;	-3940.9;	01-MAY-2004	05:51:25;	Bright;	37.0;	138;	47Eps Vir	;	2.83;	4700;occ;	74;	0;	11339
4;	-3804.9;	01-MAY-2004	05:53:41;	Bright;	39.0;	111;	8Eta Boo	;	2.68;	6000;occ;	78;	0;	11339
5;	-3585.7;	01-MAY-2004	05:57:21;	Bright;	43.0;	83;		;	2.38;	11000;occ;	86;	0;	11339
6;	-3477.6;	01-MAY-2004	05:59:09;	Bright;	37.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	75;	0;	11339
7;	-3306.6;	01-MAY-2004	06:02:00;	Bright;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	11339
8;	-3203.1;	01-MAY-2004	06:03:43;	Bright;	37.0;	87;	64Gam UMa	;	2.43;	11000;occ;	74;	0;	11339
9;	-3118.2;	01-MAY-2004	06:05:08;	Bright;	38.0;	82;	48Bet UMa	;	2.37;	10600;occ;	76;	0;	11339
10;	-3040.1;	01-MAY-2004	06:06:26;	Bright;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	11339
11;	-2819.8;	01-MAY-2004	06:10:06;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11339
12;	-2592.8;	01-MAY-2004	06:13:53;	Bright;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	11339
13;	-2211.3;	01-MAY-2004	06:20:15;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	11339
14;	-2113.5;	01-MAY-2004	06:21:53;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;	11339
15;	-2036.9;	01-MAY-2004	06:23:09;	Bright;	38.5;	68;	18Alp Cas	;	2.22;	4500;occ;	77;	0;	11339
16;	-1900.0;	01-MAY-2004	06:25:26;	Bright;	61.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	122;	0;	11339
17;	-1782.6;	01-MAY-2004	06:27:24;	Bright;	77.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	155;	0;	11339
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19;	-1261.8;	01-MAY-2004	06:36:04;	Dark	;	90;	54Alp Peg	;	2.49;	11000;occ;	101;	0;	11339
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21;	-792.7;	01-MAY-2004	06:43:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	90;	0;	11339
22;	-628.3;	01-MAY-2004	06:46:38;	Dark	;	154;	22Bet Aqr	;	2.90;	5700;occ;	140;	0;	11339
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24;	-361.7;	01-MAY-2004	06:51:05;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	11339
25;	-233.8;	01-MAY-2004	06:53:12;	Dark	;	172;	Gam Gru	;	3.00;	13100;occ;	87;	0;	11339
26;	-144.2;	01-MAY-2004	06:54:42;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	92;	0;	11339
27;	11.1;	01-MAY-2004	06:57:17;	Dark	;	148;	Alp Tuc	;	2.88;	4100;occ;	102;	0;	11340
28;	185.4;	01-MAY-2004	07:00:12;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11340
29;	579.0;	01-MAY-2004	07:06:45;	Dark	;	43;	Alp TrA	;	1.91;	4250;occ;	86;	0;	11340
30;	698.6;	01-MAY-2004	07:08:45;	Dark	;	38;	20Eps Sgr	;	1.84;	11000;occ;	145;	0;	11340
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34;	1267.9;	01-MAY-2004	07:18:14;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	140;	0;	11340
35;	1401.7;	01-MAY-2004	07:20:28;	Dark	;	80;	7Del Sco	;	2.32;	30000;occ;	124;	0;	11340
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4;	-4137.9;	02-MAY-2004	00:14:43;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	11350	
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7;	-3591.2;	02-MAY-2004	00:23:50;	Bright;	46.5;	83;		;	2.38;	11000;occ;	93;	0;	11350	
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9;	-3303.3;	02-MAY-2004	00:28:38;	Bright;	53.0;	174;	52Psi UMa	;	3.00;	4400;occ;	106;	0;	11350	
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13;	-2822.5;	02-MAY-2004	00:36:39;	Bright;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;	11350	
14;	-2592.5;	02-MAY-2004	00:40:29;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	11350	
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16;	-2116.1;	02-MAY-2004	00:48:25;	Bright;	46.0;	110;	37Del Cas	;	2.68;	8900;occ;	92;	0;	11350	
17;	-2035.2;	02-MAY-2004	00:49:46;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	11350	
18;	-1904.4;	02-MAY-2004	00:51:57;	Bright;	62.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	125;	0;	11350	
19;	-1786.9;	02-MAY-2004	00:53:54;	Bright;	78.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	156;	0;	11350	
20;	-1562.5;	02-MAY-2004	00:57:39;	Dark	;	82.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	165;	0;	11350
21;	-1256.9;	02-MAY-2004	01:02:44;	Dark	;	47.0;	90;	54Alp Peg	;	2.49;	11000;occ;	94;	0;	11350
22;	-988.7;	02-MAY-2004	01:07:13;	Dark	;	68.5;	61;	8Eps Peg	;	2.10;	3900;occ;	137;	0;	11350
23;	-791.9;	02-MAY-2004	01:10:29;	Dark	;	43.5;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	11350
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26;	-354.9;	02-MAY-2004	01:17:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	11350
27;	-138.3;	02-MAY-2004	01:21:23;	Dark	;	45.0;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	11350
28;	191.8;	02-MAY-2004	01:26:53;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;	11351
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10;-3201.8; 02-MAY-2004 02:10:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;11351
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18;-1787.3; 02-MAY-2004 04:15:06; Bright; 82.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 164; 0;11352
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20;-1256.6; 02-MAY-2004 04:23:57; Dark ; 48.0; 90; 54Alp Peg ; 2.49; 11000;occ; 96; 0;11352
21; -986.8; 02-MAY-2004 04:28:26; Dark ; 71.5; 61; 8Eps Peg ; 2.10; 3900;occ; 143; 0;11352
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7;	-4016.1;	24-MAY-2004	17:11:26;	Bright	;	41.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	82;	0;	11675
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16;	-2591.9;	24-MAY-2004	17:35:10;	Bright	;	39.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	78;	0;	11675
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23;	-1088.8;	24-MAY-2004	18:00:14;	Dark	;	70.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	141;	0;	11675
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26;	-127.8;	24-MAY-2004	18:16:15;	Dark	;	43.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	86;	0;	11675
27;	-5.0;	24-MAY-2004	18:18:17;	Dark	;	48.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	96;	0;	11675
28;	221.6;	24-MAY-2004	18:22:04;	Dark	;	39.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	78;	0;	11676
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